

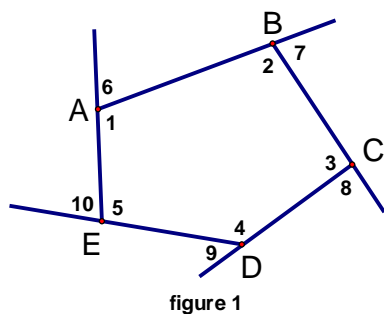
Name _____

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Geometry 201 Chapter 8 Proofs 2

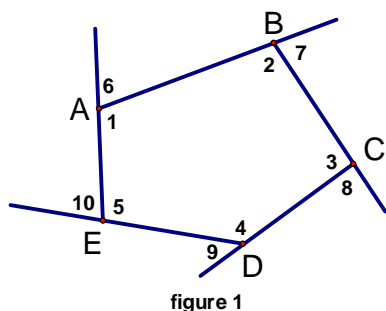
(For #s 1 and 2, you are proving theorems, and may not use Theorem 8.1 and 8.2 as reasons.)

1. Given: Convex pentagon ABCDE (figure 1)

Prove: $m\angle 1 + m\angle 2 + m\angle 3 + m\angle 4 + m\angle 5 = 540^\circ$ 

Statements	Reasons

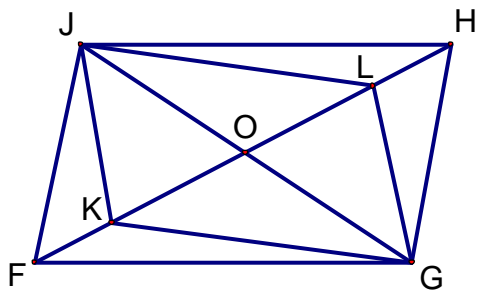
2. Given: Convex pentagon ABCDE (figure 1)

Prove: $m\angle 6 + m\angle 7 + m\angle 8 + m\angle 9 + m\angle 10 = 360^\circ$ (You can use the results from #1)

Statements	Reasons

3. Given: $\square KGLJ$; $FK = LH$

Prove: $FGHJ$ is a \square

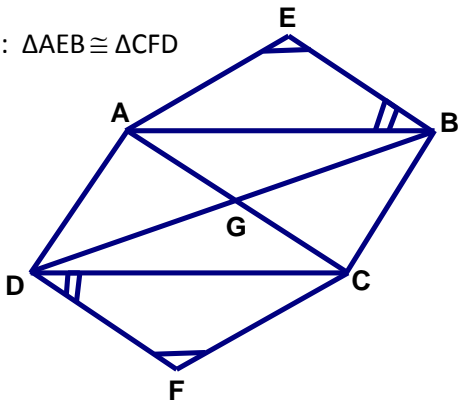


Statements

Reasons

4. Given: $\square ABCD$, $\angle AEB \cong \angle DFC$, $\angle EBA \cong \angle FDC$

Prove: $\triangle AEB \cong \triangle CDF$

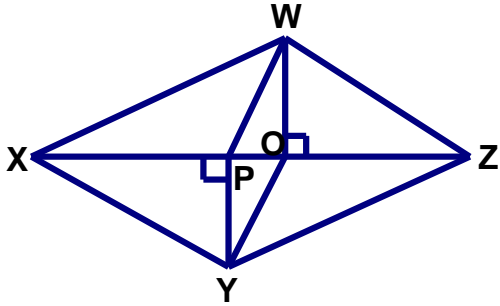


Statements

Reasons

5. Given: $\square WXYZ$, $\overline{ZO} \perp \overline{WO}$, $\overline{XP} \perp \overline{YP}$

Prove: WOYP is a parallelogram

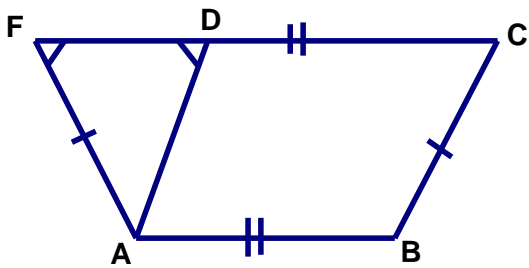


Statements

Reasons

6. Given: $\overline{AB} \cong \overline{CD}$, $\overline{BC} \cong \overline{AF}$, $\angle AFD \cong \angle ADF$

Prove: ABCD is a parallelogram



Statements

Reasons